

I. Project Segment Description

- A. Location: This project segment is located on Edgemere Road from Woodland Drive to Northwest Highway.

Location Information	
Description	Data
Water ID	293
MAPSCO	25U
DWU W/S Map	22, 23-25
Council District	13

- B. Existing Conditions

Description	Water Main	Wastewater Main
DWU As-built	Preston F.W.D. Sh. 9	Q1204 Sh. 2-4A
Length (ft)	2,450	1,400
Diameter (in)	6"	12"
Year Built	Unknown	1948
Material	C.I.	Conc.

II. Field Observations

- A. Easements and Right-of-Way

The water main being replaced is within the dedicated street R.O.W. No additional easements are required.

- B. Surface\Pavement

Edgemere Road is a concrete street with asphalt overlay with concrete curb and gutter. The pavement is mostly in fair condition with isolated sections that are cracked or broken. There are numerous asphalt patches on the street along the existing water main indicating many point repairs on the water line in the past.

- C. Trees and Landscaping

There are existing trees and landscaping in the parkway, but these should not be adversely affected because the line to be replaced is under the existing street

- D. Adjacent Structures

There are existing overhead electrical lines and street lighting located within the street R.O.W. Storm sewers and underground gas lines are also present in the

project limit. RJN will coordinate with all the utility companies during preliminary and final design to avoid potential field conflict with the respective utilities.

III. Recommendation

A. Water Main Improvement

It is recommended that the existing 6" water main be replaced with 8" PVC Class 200 water pipe.

B. Wastewater Improvement

There is a wastewater line parallel to the existing water main starting from alley north of Del Norte Lane to Northwest Highway. However, this wastewater line is located at the other side of the divided street. It will not be included with this project.

C. Construction/Surface Improvement

Open cut method is recommended for the water line replacement due to the following factors: (1) Edgemere Road is a residential street which is easily accessible with dedicated R.O.W. and flexible pavement., and (2) The water main has numerous service connections that will require open cut to make the connection to the proposed main and water main tie-ins. The existing pavement should be saw cut and replaced with the same type of pavement removed, per City of Dallas standards for the width of trench only.

D. Traffic Control

Edgemere is a two-way, two-lane residential street with parallel parking on both sides of the roadway from Woodland Drive to Northwood Road. It widens to a divided four-lane street from Northwood Road to Northwest Highway. Construction will close one lane only on Edgemere Road to maintain through traffic. Northwest Highway is a two-way, four-lane, divided street with busy traffic. A short section of the right lane on the west bound of Northwest Highway will need to be closed to facilitate the water line tie-in construction.

IV. Opinion of Probable Cost

Opinion of Probable Cost				
Qty	Unit	Description	Unit Cost \$	Total \$
2,450	LF	8" PVC Class 200 Water Pipe	60.00	147,000.00
18	EA	8" Gate Valve	800.00	14,400.00
5	EA	6" Gate Valve	600.00	3,000.00
10	EA	Water Service Connection	600.00	6,000.00
2,450	LF	Trench Safety System	1.50	3,675.00
182	CY	Reinforced Concrete Pavement	165.00	30,030.00
123	TN	Asphalt Pavement	80.00	9,840.00
100	LF	6" PVC C900 Water Line	50.00	5,000.00
61	CY	Temp Paving Flex Base	30.00	1,830.00
123	TN	Temp Asphalt Paving	55.00	6,765.00
5	EA	Fire Hydrant	2,000.00	10,000.00
2.0	TN	Cast Iron Fittings	1,500.00	3,000.00
		TOTAL		240,540.00